

12  
E w/4446  
PATENT  
2/20/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Briggs and Tatum

Serial No. 09/210,747

Filed: December 15, 1998

For: **CONSTRUCTION OF PASTEURELLA HAEMOLYTICA VACCINES**



Group Art Unit: 1645

Examiner: V. Portner

Atty. Dkt. No. 00295.77957

**RECEIVED**

FEB 14 2001

TECH CENTER 1600/2000

**AMENDMENT**

Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

This amendment is filed in response to the Office Action mailed November 13, 2000.

We believe no fee is due in connection with this amendment. If a fee is due, please charge  
Deposit Account No. 19-0733.

Please enter the following amendments.

**IN THE CLAIMS**

Please delete claims 34, 35, 38, 39, 45, and 50.

40. (Amended) The vaccine of claim [34] 41 comprising *P. haemolytica* ATCC

55518.

41. (Amended) A vaccine for inducing protective immunity against *Pasteurella*

*haemolytica* infection, comprising: an isolated *Pasteurella haemolytica* bacterium which  
comprises a mutation in an *aroA* [mutation] gene, wherein the mutation attenuates the bacterium.

43. (Amended) The vaccine of claim 41 which is [administered by] formulated for